was 110,000 bushels, valued at $4,400, while the catch in 1889, up to and including the 19th of June, was 75,000 bushels, valued at $3,000."

The marvellous abundance in certain localities of the various species above named, is, aside from the economic value of the fishery, of exceeding interest to the naturalist. What proportion of the total quantity, 315,000 bushels of jingles and quarter-decks, belong to the latter species, *Crepidula*, is not stated; probably much less than half, and quite likely not more than a quarter; presumably the quarter-decks are attached to, or are adherent upon, the jingle or *Anomia* shells, domiciliares upon the valves of the latter species, the same as the West American species.

*Crepidula rugosa* is a domiciliare on the shells of *Pecten æquisulcatus* Cpr., the Californian analogue of *P. irradians*. It is not at all infrequent to find from three to six individuals of the West Coast *Crepidula* on a single specimen of the *Pecten*.

Beside the use of oyster, clam, scallop, quarter-deck and jingle shells for forming spawning-beds, the oystermen in some instances and in some places, are utilizing old tin cans as catchment objects for the spat to fasten upon. What with the packing of adult oysters at the canneries and the entrapping of the innocent unsophisticated fry on old tin pots and cans, the situation may be said to look to an old man in a balloon, or a young man "up a tall tree," like canning the oysters at both ends.

Los Angeles, Cal., June, 1897.

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## NEW UNIOS.

BY BERLIN H. WRIGHT.

**Unio Pinei** sp. nov.

Shell wide or oblong, moderately and uniformly thin, dorsal and ventral margins usually parallel, subtruncate or obliquely rounded before, biangular and truncated behind. Epidermis reddish-brown; olive above, polished and thickly covered with unequal rays. Beaks scarcely elevated above the dorsum, and surrounded by four or five fine concentric, undulating ridges. Ligament thin, reddish, long and depressed. Greatest diameter in the centre of the shell. Beak cavities slight. Cavity of the valves ample and tray-shaped. Nacre

brilliant and copper-colored, very iridescent and remarkably coruscated ; the upper third being stained darker. Lateral teeth equal, long, slender, slightly curved and extending fully to the cardinals. Cardinal teeth inclined to be double in both valves, compressed, oblique and serrulate. Cicatrices well impressed, showing the prismatic layers, the anterior ones being roughened in the posterior portion and widely distinct, and the posterior ones confluent. Pallial lines obscure. Dorsal notch long and shallow. Width 3 inches, length 1.5 inches, diameter 1 inch.

Habitat.—An unnamed lake in Witthacoochee River region of Hernando Co., Florida.

Type in National Museum.

Remarks.—It is difficult to assign a place to this shell, partaking as it does of the features of several members of the *Buckleyi* group. It has the subtruncate anterior of *U. coruscus* Gould, and approaches that species in nacre, which in our shell is of a deeper and richer tint, and is not so pointed behind, is more inflated, straighter dorsum, lighter teeth, more rayed and has a red instead of a blackish epidermis, and attains a much greater size. From *U. Hinkleyi* B. H. W., it differs in the abrupt anterior, sides more rounded, darker nacre, and in the reddish, instead of black epidermis. It is in every way more gracile than *U. Buckleyi* Lea, and is not so pointed behind. Nor has it the ponderous umbos, arched dorsum and rounded base of that species.

Sixty specimens of all ages have been observed, showing a remarkably perfect uniformity of characters. It is named for the discoverer, Mr. George Pine, of Aripeka, Hernando Co., Florida.

(*To be Continued.*)

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## MELANIA YOKOHAMENSIS, N. SP.

BY W. D. HARTMAN.

Shell elongate, conic, gradually tapering to an acute apex. Whorls 7, suture lightly impressed ; surface smooth, with obscure spiral lines, color yellowish-green ; aperture white, opercle brown, oval and corneous. Length 35 mill., width 13 mill. ; width of aperture 6 mill., length of aperture 10 mill.

Locality.—Yokohama, Japan, B. Schmacker collector.